

Certificate

EC Type-Examination

No. CE 557350



Issued to:

3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom

In respect of:

Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-106/M-107 Faceshields
See details on pages 2 to 5.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

A handwritten signature in black ink, appearing to be 'D. W. Ford', written over a horizontal line.

David W. Ford, Executive Director, Healthcare and Testing Services

First Issued: 22 Sep 2010

Date: 22 Sep 2010

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EC Type-Examination

No. CE 557350

3M United Kingdom Plc

Bracknell

Product Details:

Product name: Headtop based Powered Air Respiratory Protective Systems.
Product type: Powered air filtering devices incorporating a helmet.
Models: 3M™ Versaflo™ M-106/M-107 Faceshields - 3M™ Jupiter™ systems (standard industrial products).
3M™ Versaflo™ M-106/M-107 Faceshields - 3M™ Versaflo™ TR-302E systems (standard industrial products).

Technical Specifications: Harmonized European Standard EN 12941:1998+A2:2008.

EN 12941 classifications: 3M™ Jupiter™ systems: TH2.
3M™ Versaflo™ TR-302E systems: TH2.

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-106/M-107 Faceshield with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Faceshield has crown area cut-outs and a lift up visor/face seal section incorporating a clear visor. The 3M M-106 and 3M M-107 are identical except for the interchangeable Comfort and Flame Retardant Faceseals.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 5.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt	TR-302E, complete with belt or backpack
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 4.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP6X

and

BS EN 60079-0:2006 - Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. To address this the applicable Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details:

Technical File References:

System component	Technical File
3M Versaflo M-106/M-107 Faceshield	TF0213
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-106/M-107 Faceshield with 3M Versaflo TR-302E and Jupiter Powered Air Turbo systems.	0086:7461142

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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Date: 22 Sep 2010

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Bracknell
Berkshire
RG12 8HT
United Kingdom

In respect of:

Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-106/M-107 Faceshields
See details on pages 2 to 5.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

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Product Details:

Product name: Headtop based Powered Air Respiratory Protective Systems.
Product type: Powered air filtering devices incorporating a helmet.
Models: 3M™ Versaflo™ M-106/M-107 Faceshields - 3M™ Jupiter™ systems (standard industrial products).
3M™ Versaflo™ M-106/M-107 Faceshields - 3M™ Versaflo™ TR-302E systems (standard industrial products).

Technical Specifications: Harmonized European Standard EN 12941:1998+A2:2008.

EN 12941 classifications: 3M™ Jupiter™ systems: TH2.
3M™ Versaflo™ TR-302E systems: TH2.

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-106/M-107 Faceshield with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Faceshield has crown area cut-outs and a lift up visor/face seal section incorporating a clear visor. The 3M M-106 and 3M M-107 are identical except for the interchangeable Comfort and Flame Retardant Faceseals.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 5.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt	TR-302E, complete with belt or backpack
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 4.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP6X

and

BS EN 60079-0:2006 - Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. To address this the applicable Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details:

Technical File References:

System component	Technical File
3M Versaflo M-106/M-107 Faceshield	TF0213
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-106/M-107 Faceshield with 3M Versaflo TR-302E and Jupiter Powered Air Turbo systems.	0086:7461142

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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Certificate

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Issued to:

**3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom**

In respect of:

**Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-306/M-307 Helmets
See details on pages 2 to 6.**

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

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David W. Ford, Executive Director, Healthcare and Testing Services

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Product Details:

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a helmet.		
Models:	3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Jupiter™ systems (standard industrial products). 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ TR-302E systems (standard industrial products).		
Technical Specifications:	Harmonized European Standard EN 12941:1998+A2:2008.		
EN 12941 classifications:	3M™ Jupiter™ systems:	TH2.	
	3M™ Versaflo™ TR-302E systems:	TH3.	

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-306/M-307 Headtop with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Headtop is an industrial safety helmet based unit with a lift up visor/face seal section incorporating a clear visor. The 3M M-306 and 3M M-307 are identical except for the interchangeable Comfort and Flame Retardant Faceseals.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 6.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt.	TR-302E, complete with belt or backpack.
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 5.

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Head protection incorporated within the systems:

In addition to the respiratory protection provided by the systems head protection is also provided.

Technical specification: Harmonized European Standard EN 397:1995.

EN 397 classifications: 440V ac - electrical insulation properties.
LD - Lateral deformation.

The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995 - industrial safety helmets, both documents incorporating Amendment No. 1.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP6X

and

BS EN 60079-0:2006 - Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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Packaged variants

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Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details:

Technical File References:

System component	Technical File
3M Versaflo M-306/M-307 Helmet	TF0214
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-306/M-307 helmet with 3M Versaflo TR-302E and Jupiter Powered Air Turbos and associated Filters.	0086:7461144

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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**3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom**

In respect of:

**Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-306/M-307 Helmets
See details on pages 2 to 6.**

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

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Product Details:

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a helmet.		
Models:	3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Jupiter™ systems (standard industrial products). 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ TR-302E systems (standard industrial products).		
Technical Specifications:	Harmonized European Standard EN 12941:1998+A2:2008.		
EN 12941 classifications:	3M™ Jupiter™ systems:	TH2.	
	3M™ Versaflo™ TR-302E systems:	TH3.	

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-306/M-307 Headtop with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Headtop is an industrial safety helmet based unit with a lift up visor/face seal section incorporating a clear visor. The 3M M-306 and 3M M-307 are identical except for the interchangeable Comfort and Flame Retardant Faceseals.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 6.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt.	TR-302E, complete with belt or backpack.
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 5.

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Head protection incorporated within the systems:

In addition to the respiratory protection provided by the systems head protection is also provided.

Technical specification: Harmonized European Standard EN 397:1995.

EN 397 classifications: 440V ac - electrical insulation properties.
LD - Lateral deformation.

The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995 - industrial safety helmets, both documents incorporating Amendment No. 1.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

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The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

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and

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BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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System component	Technical File
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3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-306/M-307 helmet with 3M Versaflo TR-302E and Jupiter Powered Air Turbos and associated Filters.	0086:7461144

Certificate validity

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3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom

In respect of:

Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-406/M-407 Helmets
See details on pages 2 to 6.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

A handwritten signature in black ink, appearing to read 'D. W. Ford', with a stylized flourish at the end.

David W. Ford, Executive Director, Healthcare and Testing Services

First Issued: 22 Sep 2010

Date: 22 Sep 2010

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EC Type-Examination

No. CE 557352

3M United Kingdom Plc

Bracknell

Product Details:

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a helmet.		
Models:	3M™ Versaflo™ M-406/M-407 Helmets- 3M™ Versaflo™ TR-302E systems (standard industrial products). 3M™ Versaflo™ M-406/M-407 Helmets - 3M™ Jupiter™ systems (standard industrial products).		
Technical Specifications:	Harmonized European Standard EN 12941:1998+A2:2008.		
EN 12941 classifications:	3M™ Versaflo™ TR-302E systems:	TH3.	
	3M™ Jupiter™ systems:	TH3.	

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-406/M-407 Headtop with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Headtop is an industrial safety helmet based unit with a fixed visor carrier incorporating a lift up clear visor, and an inner collar seal and an outer shroud. The 3M M-406 and 3M M-407 are identical except for the interchangeable High Durability or Flame Retardant Outer Shrouds.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 6.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt.	TR-302E, complete with belt or backpack.
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 5.

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Bracknell

Head protection incorporated within the systems:

In addition to the respiratory protection provided by the systems head protection is also provided.

Technical specification: Harmonized European Standard EN 397:1995.

EN 397 classifications: 440V ac - electrical insulation properties.
LD - Lateral deformation.

The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995 - industrial safety helmets, both documents incorporating Amendment No. 1.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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Additional independently assessed characteristics of system components:

3M Jupiter unit 085-00-10P

The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP6X

and

BS EN 60079-0:2006 - Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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3M United Kingdom Plc

Bracknell

Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. To address this the applicable Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details:

Technical File References:

System component	Technical File
3M Versaflo M-406/M-407 Helmet	TF0215
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
22 September 2010	First issue, model 3M Versaflo M-406/M-407 Helmet with 3M Versaflo TR-302E and Jupiter Powered Air Turbo systems.	0086:7461145

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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Date: 22 Sep 2010

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Certificate

EC Type-Examination

No. CE 557352



Issued to:

3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom

In respect of:

Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet
Models: Range based on the 3M™ Versaflo™ M-406/M-407 Helmets
See details on pages 2 to 6.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

A handwritten signature in black ink, appearing to be 'D. W. Ford', written over a horizontal line.

David W. Ford, Executive Director, Healthcare and Testing Services

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EC Type-Examination

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Product Details:

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a helmet.		
Models:	3M™ Versaflo™ M-406/M-407 Helmets- 3M™ Versaflo™ TR-302E systems (standard industrial products). 3M™ Versaflo™ M-406/M-407 Helmets - 3M™ Jupiter™ systems (standard industrial products).		
Technical Specifications:	Harmonized European Standard EN 12941:1998+A2:2008.		
EN 12941 classifications:	3M™ Versaflo™ TR-302E systems:	TH3.	
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The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

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Components of the systems:

The major components of each system are a 3M Versaflo M-406/M-407 Headtop with a 3M Breathing Tube and a 3M Powered Air Turbo complete with Battery and Filter(s). The Headtop is an industrial safety helmet based unit with a fixed visor carrier incorporating a lift up clear visor, and an inner collar seal and an outer shroud. The 3M M-406 and 3M M-407 are identical except for the interchangeable High Durability or Flame Retardant Outer Shrouds.

The basic information on components of the systems are detailed in the table below, specific details are included in the appropriate 3M Reference Leaflet incorporated in the relevant Technical File referenced on page 6.

COMPONENT	JUPITER BASED SYSTEMS	TR-302E BASED SYSTEMS
Powered Air Turbo	Jupiter, complete with belt.	TR-302E, complete with belt or backpack.
Breathing Tube	BT-20S/L, BT-30 & BT-40	BT-20S/L, BT-30 & BT-40
Battery	4 hour battery 4 hour IS battery 8 Hour battery	3 cell (economy) 6 cell (high capacity)
Filter	Jupiter Industrial range	TR-302E range

The 3M Jupiter Powered Air Turbo has the option of being configured as an Intrinsically Safe unit, see details on page 5.

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Head protection incorporated within the systems:

In addition to the respiratory protection provided by the systems head protection is also provided.

Technical specification: Harmonized European Standard EN 397:1995.

EN 397 classifications: 440V ac - electrical insulation properties.
LD - Lateral deformation.

The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995 - industrial safety helmets, both documents incorporating Amendment No. 1.

Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 1 - optical class.

Options: B - medium energy impact.
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

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The Jupiter unit satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Jupiter unit when fitted with the Intrinsically Safe Kit consisting of an I.S. Battery and an I.S. Pouch satisfies the following requirements:-

BS EN 60529:1992 - Degrees of protection provided by enclosures (IP code).

Dust Protected IP6X

and

BS EN 60079-0:2006 - Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007 - Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004 - Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking:

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta=-20°C to +40°C

II 2GD.

The Jupiter unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

3M Versaflo TR-302E unit

The Versaflo TR-302E unit satisfies the following requirements:-

BS EN 60529:1992 Degrees of protection provided by enclosures (IP code).

Protected against Spraying Water IPX3 Dust Protected IP5X.

The Versaflo TR-302E unit also complies with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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Certificate Administration Details:

Technical File References:

System component	Technical File
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3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes	TF0137
3M Jupiter Filters	TF0200
3M Jupiter Powered Air Turbo	TF0210
3M Versaflo TR-302E Powered Air Turbo & Filters	TF0211

Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
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Certificate validity

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The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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